



MEA Item Statistics Review

Measured Progress
July 2005



Overview of Tasks

- ◆ Review items with field test statistics
- ◆ Approve or reject items for use in the operational assessment
- ◆ Identify rejected items that could be revised

General Item Information

Appears at the top of each page

1011 Maine 04-05 Educational Assessment, ELA – Reading, Grade 8, Seq #26 EQ: N

Asset: Type: Multiple Choice / Key: B / Calculator: N/A

Description: IREF 44571

11:A06: Process of Reading – Identify accurately both the author's purpose and the author's point of view.

Related Cluster Right Smart O'Wind	Sampling Matrix (Field/Pilot)
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Item Statistics and Other Information

Appears on the left, below the item

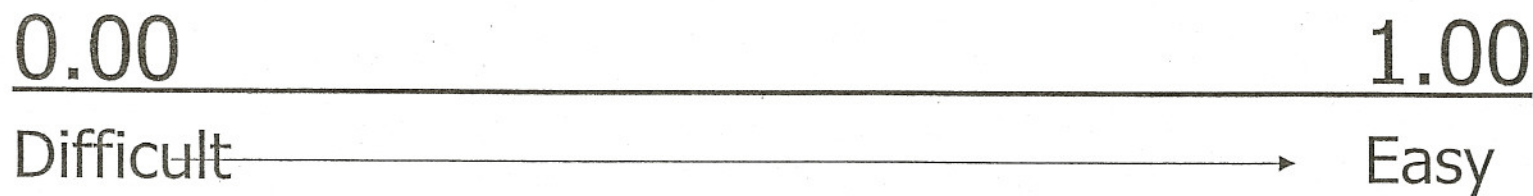
Sample:		Embed	
Criterion:		TOTAL TEST SCORE	
Difficulty (Mn): 0.70		Discrimination (r): 0.42	
a:	c:	b(01):	b(12):
fit:		b(23):	b(34):
I(s12):		I(s23):	I(34):
DIF(F-M): NS		DIF(B-W): NS	DIF(H-W):

Item Statistics

- ◆ data provides clues about the item
- ◆ the review of data and items is a judgmental process

Item Difficulty (multiple-choice items)

- ◆ Percent of students with a correct response. Range is from .00 to 1.00



- ◆ MEA needs a range of difficulty, but
 - below .20 **may be** too difficult
 - above .90 **may be** too easy

Item Difficulty

(constructed-response items)

- ◆ Average score on the item.
- ◆ Range is from .00 to 4.00

On 4-point items

- below 0.8 **may be** too difficult
- above 3.6 **may be** too easy

Item Discrimination

- ◆ How well an item separates higher performing students from lower performing students
- ◆ Range is from -1.00 to 1.00
- ◆ The higher the discrimination the better
- ◆ Items with discriminations below .20 may not be effective and should be reviewed

Note: Discrimination is restricted if the item is very easy or very difficult

Other Information: Multiple-Choice

Maine 04-05 Educational Assessment 2004-2005, Grade 8, Form 4, Position 26 Session 2B

Score Point mc	n	% of Total	% of 4 th quartile	% of 3 rd quartile	% of 2 nd quartile	% of 1 st quartile	Mean crit. score
BL	50	3	0	1	0	11	7.2
A	49	3	1	1	3	8	26.7
B*	1030	70	91	80	72	42	40.0
C	279	19	8	17	22	29	33.6
D	54	4	1	1	2	10	25.8
E	0	0	0 (2)	0	0	2.0	0.0
T	1462	100	25	25	23	27	37.4

Other Information: Constructed-Response

Maine 04-05 Educational Assessment 2004-2005, Grade 8, Form 4, Position 27 Session 2B

Score Point or	n	% of Total	% of 4 th quartile	% of 3 rd quartile	% of 2 nd quartile	% of 1 st quartile	Mean crit. score
BL	59	4	0	1	1	13	9.7
0	130	9	0	2	6	25	24.6
1	379	26	4	16	42	41	31.8
2	580	40	41	59	43	18	38.8
3	262	18	42	22	7	2	43.1
4	52	4	13	1	1	0	47.5
T	1462	100	25	25	23	27	37.4

Summary of tasks

Item difficulty

- review items that are very easy or very difficult
 - ◆ recommend for use, deletion, or revision

Item discrimination

- review items with poor discriminations
 - ◆ recommend for use, deletion, or revision